Troubleshooting Guide

Having trouble with the sound system?

Condition (*italic text below denotes battery models only*)	*Possible Solution*
No sound (power LED not lit):	• turn POWER switch ON • *charge battery*
Charge indicator doesn't light:	• check / replace fuse
No sound (power LED lights):	• check for output from source • make sure all cables are completely plugged in • turn up volume control of input used • remove plug from speaker output if not using external speaker output (AC model only)
Shortened battery life:	• *charge battery fully; if battery life continues to deteriorate, contact Anchor customer service* • *reduce volume to eliminate distortion*
Distorted sound:	• lower system volume control • reduce source output level
Excessive hum or noise:	• use shielded cables • use balanced microphone

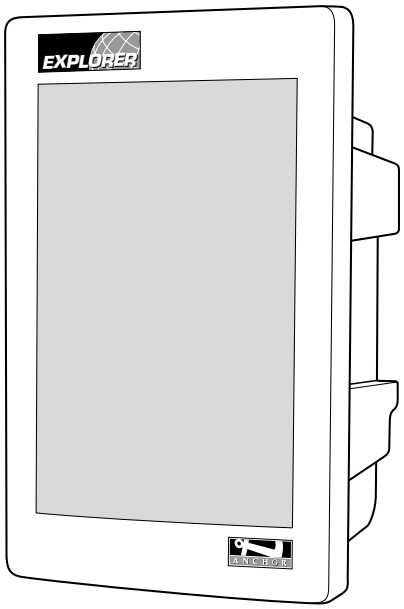
Having trouble with the wireless system? (Wireless models only.)

Condition	*Possible Solution*
No sound (TX ON indicator lights):	• set MUTE switch to ON (handheld mic only) • turn up WIRELESS volume control • make sure mic is plugged into bodypack transmitter
No sound (TX ON indicator off):	• turn Explorer POWER switch ON • make sure transmitter power switch is ON • set receiver and transmitter to same channel • replace battery in transmitter

ANCHOR

ANCHOR Audio, Inc. (310) 784-2300

100-0046-000 / Revision B, 06/97



Explorer

Owner's Manual

ANCHOR

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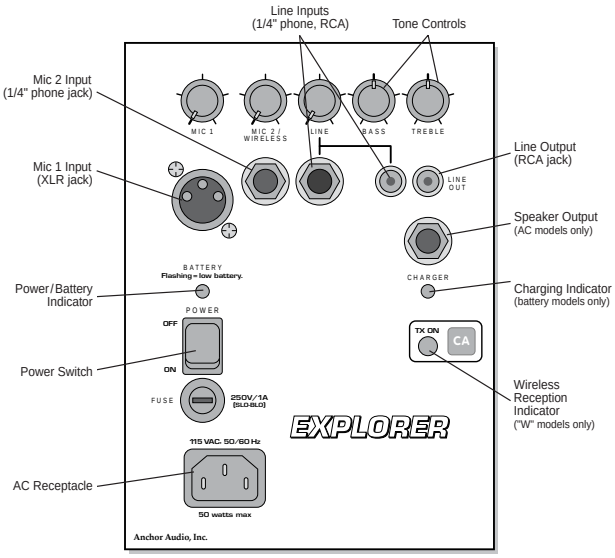
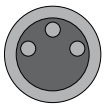
Explorer Control Panel



Operating the sound system

1. Set all input level controls to minimum and bass and treble to 12:00 position before turning the power on.
2. Plug a microphone into either Mic input jack (depending on microphone and plug type), or connect an audio source to the line input.
3. Turn power ON (red LED above switch will light).
   On battery powered models, if the LED flashes or does not light, the battery must be charged (see page 10).
4. Adjust the level control adjacent to the input used to desired volume level.
5. Adjust the bass and treble controls for desired sound.



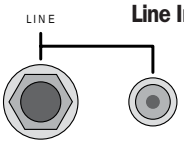
Mic 1 Input

Balanced, low impedance XLR microphone input. Use with a balanced microphone to help prevent hum or interference when using long mic cables. It has phantom power for use with condenser-type microphones.

Mic 2 Input / Wireless Mic Input

An unbalanced, low impedance microphone input. For use with mics that have a 1/4" phone plug.

On wireless models, the wireless receiver is internally connected to this input. Use the Mic 2 level control to adjust the wireless mic volume. *(Inserting a plug into the Mic 2 input disconnects the wireless input—to use a wireless microphone simultaneously with a wired mic, use the Mic 1 Input.)*



Line Input

The line input is used for playback of a tape or CD player, musical instrument, VCR or similar source. There is both a 1/4"-phone and an RCA jack. They may be used simultaneously, and can be combined with the mic inputs for a composite output.

NOTE: All connections must be made with shielded cable to avoid hum, buzzing, or radio interference.

Line Output

The output signal is a composite of all the inputs. Use it to record your presentation, or to "daisy chain" another powered sound system to the Explorer for greater crowd coverage.

Speaker Output (AC models only)

Use the speaker output to drive an unpowered 8Ω speaker in addition to Explorer's built-in speakers for greater output.

Speaker Stand Adapter

The 1.5" diameter speaker stand adapter mounts to the bottom of the Explorer. To install the adapter:

1. Slide adapter into the slot on bottom of the Explorer.
2. Tighten screw to secure adapter to Explorer.
3. Place unit on stand, then tighten screw on the collar of the adapter to secure Explore to stand.

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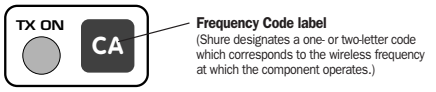
Wireless Operation (wireless model only)

Setting up the wireless system

Checking the Frequency Code:

Before proceeding, you must first verify that the wireless frequency of your transmitter matches the frequency of the receiver installed in your Anchor sound system.

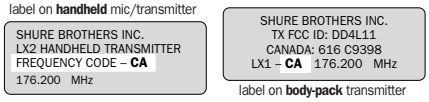
1. The control panel of the sound system should have the following label:



Frequency Code label
(Shure designates a one- or two-letter code which corresponds to the wireless frequency at which the component operates.)

2. The frequency code must match the code found on the transmitter as described below:

   HANDHELD: Unscrew the battery compartment cover on lower end of the microphone. Remove the battery (if installed) and check code on the label.



   BODY-PACK: Check the code on the label located behind the belt clip.

3. If the frequency codes don't match, locate the correct transmitter whose code matches the sound system.

About the transmitter battery gauge/indicator

Assuming a battery is installed in the transmitter, you can estimate the remaining operating time by sliding the power switch to the PWR position *(first turn the sound system off, or set the transmitter mute switch to the MUTE position)*. Observe the color of the LED indicator(s) that light up:

Operating times using a fresh 9 volt alkaline battery *Duracell MN1604 or equivalent.

Battery LED Indicator	Operating Time
green	6 - 20 hours
green & amber	4 - 6 hours
amber	2 - 4 hours
red	< 1 hour

Feedback Information

What causes feedback?

Feedback is a ringing, howling, or shrill sound that is self-generated by the sound system. It is the result of sound from the speakers being picked up by the microphone(s) in use and then re-amplified by the system. This can form a self-sustaining loop that can damage the sound system if allowed to continue.

To prevent feedback:

ALWAYS STAND BEHIND THE SPEAKER
WHEN USING A MICROPHONE.

CAUTION: *Feedback can damage your equipment and may be hazardous to your hearing. To avoid feedback, always make sure volume controls are at minimum before turning unit on. If feedback occurs, immediately reduce the volume.*

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Getting Started

Save the shipping carton and packing materials. They were specially designed to ship your unit safely.

Inspection and inventory of your system

Check unit carefully for damage which may have occurred during transit. Each Anchor product is carefully inspected at the factory and packed in a special carton for safe transport.

Inventory

- Explorer sound system
- Speaker stand adapter
- Warranty registration card

All damage claims must be made with the freight carrier.
Notify the freight carrier immediately if you observe any damage to the shipping carton or product. Repack the unit in the carton and await inspection by the carrier's claim agent. Notify your dealer of the pending freight claim.

Returning your unit for service or repairs

Should your unit require service, contact your dealer or our Customer Service Department at (310) 784-2300 to obtain a Return Authorization (RA) number. All shipments to Anchor must include an RA number and must be shipped prepaid. *C.O.D. shipments will be refused and returned at your cost.*

Warranty registration

Please fill out the warranty card and return it with a copy of your invoice to Anchor's Customer Service Department. This will activate your limited two year warranty.

Wireless Operation (wireless model only)

*Duracell MN1604 or equivalent.

Replacing the transmitter battery

Note: The transmitter power switch must be in the OFF position!

HANDHELD: Unscrew the battery compartment cover on the lower end of microphone. Install a fresh 9 Volt alkaline battery* and replace the cover.

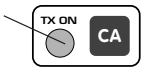
BODY-PACK: Press the "OPEN" end of the battery cover, slide it back and lift the cover. Install a fresh 9 Volt alkaline battery* being sure to observe proper polarity. Close the cover.

Operating the wireless microphone system

The audio signal from the built-in wireless receiver is fed to the Mic 2/Wireless input. Unplug any other mic from the MIC 2 input when using the wireless system.

Operating the wireless microphone system:

1. Set the Mic 2/Wireless volume control to minimum.
2. Turn the sound system power switch ON.
3. Slide the transmitter power switch to PWR.
   The sound system's TX ON indicator lights to indicate wireless signal (RF) is being transmitted and received.



4. Adjust the Mic 2/Wireless control to desired volume.

Caution: Harmful feedback may occur when walking in front of a sound system or speaker with a wireless microphone. Always point mic away from speakers.

Using the microphone ON/MUTE switch:

When set to the "ON" position the mic operates normally. To prevent unwanted sounds from being picked up without turning the transmitter off, move switch to "MUTE" position.

(The handheld mic/transmitter comes with a protective sleeve which fits over the power and mute switches to prevent accidental movement during use. To install it, unscrew the battery cover and slide the sleeve onto the microphone handle. Replace the cover.)

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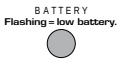
Battery Operation - Model PB-2500

Caring for the built-in battery

It is very important that you fully charge the battery in your system before first use, and as soon as possible after each and every use—even if operated only briefly.

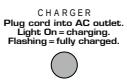
IMPORTANT: Do not store system with a partially or fully discharged battery, as this will reduce battery service life.



When the "Battery" LED begins flashing:

When the Battery LED begins flashing, this indicates the battery is low and the unit will automatically shut off in 15 - 30 minutes.

Charging the battery



Plug the power cord into an AC outlet (the Charger LED will light, indicating the battery is being charged).

When the battery is charged (about 10 hours), the Charger LED will flash. This indicates the charger has switched to the maintenance charge rate—the charger may be left plugged in to maintain a full charge without damaging the battery.

IMPORTANT: For longer battery life, always store the unit with the battery in a fully charged condition.

To squeeze a little more time out of a fully-charged unit, plug the AC power cord into an outlet while you're using the system.

Expected service time per charge

Battery service time will vary depending on the volume level and type of program usage. You can expect about 6-8 hours of operation at medium volume, 3-4 hours at full volume of continuous music input (longer for speech applications).

Accessories

MIC-90 Handheld Microphone (for Mic 1 Input)
Anchor's dynamic, balanced, low impedance microphone with a unidirectional pick-up pattern. It has a on/off switch and comes with a 20' cable and mic clip.

MIC-50 Handheld Microphone (for Mic 2 Input)
An unbalanced, low impedance microphone with a privacy on/off switch. It has a 1/4" phone plug attached to a 10' cable.

P-2501 Companion Speaker (for AC Explorer only)
An unpowered speaker which connects to the speaker output of an AC powered Explorer for increased crowd coverage.

Thank you for choosing an Anchor Audio portable sound system. Our products incorporate state-of-the-art design and the finest quality of materials and workmanship. We're proud of our products and appreciate the confidence which you have shown by selecting an Anchor system.

I hope you'll take a few of minutes to review this manual. We've incorporated several unique features into our products, and your knowledge of how to use them will enhance the performance and your enjoyment of the system.

David Jacobs, President on behalf of all Anchor employees

Quick Use Guide

The Explorer is a high-fidelity portable sound system that's simple to set up and use. You'll need a microphone or some other input source before before you get started.

If you have a battery powered model, make sure the battery is fully charged before use (see page 10).

Here's how easy it is to use

1. Set the unit in front of your audience on the floor, table or on a speaker stand.
2. Plug a microphone into the Mic 1 or Mic 2 input, or plug an audio source into the line input.
3. Set all input level controls to minimum, and set the bass and treble controls to the 12:00 position.
4. Turn the power switch ON (plug in the power cord if you're using an AC model). Slowly increase the level control adjacent to the input used until desired volume is reached.
5. Adjust the bass and treble for desired sound quality.

To operate the wireless mic system on wireless models, see "Wireless Operation" on pages 8 and 9. And for more detailed instructions, see the "Operation" section beginning on page 6.

Problems? Consult the troubleshooting section on the back page of this manual.

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Important Safeguards

CAUTION: To reduce the risk of electric shock, do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified personnel.

WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture.

ATTENTION: Pour eviter les risques de choc électrique, ne pas enlever le couvercle. Aucun entretien de pièces intérieures par l'usager. Confier l'entretien au personnel qualifié.

AVIS: Pour eviter les risques d'incendie ou d'électrocution, n'exposez pas cet article à la pluie ou a l'humidité.

EXPLANATION OF GRAPHICAL SYMBOLS

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to humans.

The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

EXPLICATION DES SYMBOLES GRAPHIQUES

Le symbole éclair avec point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la presence à l'intérieur du coffret de “voltage dangereux” non isolé d'ampleur suffisante pour constituer un risque d'elétrocution.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour la fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.

DATE OF MANUFACTURE

The date of manufacture of this Anchor Audio product can be determined by the seven or eight digit serial number code. The fifth and sixth digits from the right denote the year, the seventh digit (letter) from the right denotes the month (A=Jan, B=Feb, etc.) Example: "XD9600083" states that the unit was manufactured in April of 1996. An "X" may or may not exist as the eighth digit (letter) and has no significance in the serial number or date code.

Specifications

PA-2500

Rated power output:	50 watts @ 4Ω continuous
Max SPL @ rated power:	110 db @ 1 meter

PB-2500

Rated power output:	25 watts @ 6Ω continuous
Max SPL @ rated power:	107 db @ 1 meter
Battery:	12 volt rechargeable, 7.0AH

General

Frequency response:	60 Hz - 16 kHz
Speaker type:	6.5" woofer and high-output horn tweeter

Inputs

Mic 1:	Lo-Z, balanced, phantom power, XLR
Mic 2:	Lo-Z, unbalanced, 1⁄4"-phone (wireless input on wireless models)
Line input:	Hi-Z, unbalanced, 1⁄4"-phone and RCA

Sensitivity for rated output; PA-2500

Line:	-16 dBV (160 mVrms)
Mic (unbalanced):	-41 dBV (9 mVrms)
Mic (balanced):	-47 dBV (4 mVrms)

Sensitivity for rated output; PB-2500

Line:	-20 dBV (100 mVrms)
Mic (unbalanced):	-44 dBV (6 mVrms)
Mic (balanced):	-50 dBV (3 mVrms)

Outputs

Line output (post fader):	Lo-Z, buffered, RCA
Speaker output (AC models)	8Ω, unswitched, 1⁄4"-phone
AC Power requirements:	110 - 125 VAC, 50/60 Hz
Export model:	210 - 240 V~, 50/60 Hz (PA: 90 watts max, 15 watts idle. PB: 50 watts max)
Dimensions (HWD):	16.5 x 10.5 x 10", 42 x 27 x 25 cm
Weight:	
PA-2500:	20 pounds, 9.0 Kg.
PB-2500:	23 pounds, 10.4 Kg.

Specifications subject to change without notice.

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